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APPLICATION NO.	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/752,423	01/06/2004	Erik Buntinx	29248/19	3783 .	
1912 7590 06/20/2007 AMSTER, ROTHSTEIN & EBENSTEIN LLP			EXAM	EXAMINER	
90 PARK AVENUE			RAMACHANDRAN, UMAMAHESWARI		
NEW YORK, I	NY 10016		ART UNIT	, PAPER NUMBER	
			1617		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
		10/752,423	BUNTINX, ERIK		
Office Ad	ction Summary	Examiner	Art Unit		
		Umamaheswari Ramachandran	1617		
The MAILING Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to	communication(s) filed on <u>06 Ja</u>	<u>nuary 2004</u> .			
2a) This action is I	This action is <b>FINAL</b> . 2b) This action is non-final.				
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in acco	ordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	63 O.G. 213.		
Disposition of Claims					
4)⊠ Claim(s) <u>1-63</u>	is/are pending in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s)			•		
6)☐ Claim(s)					
7) Claim(s)		lastian raquirament			
	are subject to restriction and/or e	lection requirement.			
Application Papers					
9)☐ The specification	on is objected to by the Examiner	:			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C	C. § 119				
	ent is made of a claim for foreignome * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).		
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Ci		4) Interview Summary			
	s Patent Drawing Review (PTO-948) Statement(s) (PTO/SB/08) ———·	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

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### **DETAILED ACTION**

Claims 1-63 are pending.

### Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-10 drawn to a method of treating a disease or disorder with an underlying dysregulation of emotional functionality comprising administering to a patient a compound having (i) selective affinity for the dopamine (D4) receptor and a (ii) selective affinity for the 5-HT2A receptor classified in 514/254.02, 514/253.01, 514/254.08, 514/323, 544/364, 544/367, 544/373, 546/200, 514/321, 514/323, 546/197, 546/201.
- II. Claims 11-19 drawn to a method of treating a disease or disorder with an underlying dysregulation of emotional functionality comprising administering to a patient a compound having (i) selective affinity for the dopamine (D4) receptor, (ii) a second compound having selective affinity for the 5-HT2A receptor and (iii) a third compound classified in class 514/254.02, 514/253.01, 514/254.08, 514/323, 544/364, 544/367, 544/373, 546/200, 514/321, 514/323, 546/197, 546/201.
- III. Claims 1, 20, 22, 40 drawn to a method of treating a disease or disorder with an underlying dysregulation of emotional functionality comprising administering to a patient a compound having (i) selective affinity for the dopamine (D4) receptor and a (ii) selective affinity for the 5-HT2A receptor (ii) a second compound having selective affinity for nor-epinephrine

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reuptake inhibitor classified in class 514/254.02 , 514/253.01 , 514/254.08 , 514/323 , 544/364 , 544/367 , 544/373 , 546/200, 514/321 , 514/323 , 546/197 , 546/201, 514/415 , 514/443 , 514/469 , 548/491 , 549/51 , 549/467.

- IV. Claims 11, 21, 39, 41 drawn to a method of treating a disease or disorder with an underlying dysregulation of emotional functionality comprising administering to a patient a compound having (i) selective affinity for the dopamine (D4) receptor, (ii) a second compound having selective affinity for the 5-HT2A receptor and (ii) a compound having selective affinity for nor-epinephrine reuptake inhibitor classified in class 514/254.02, 514/253.01, 514/254.08, 514/323, 544/364, 544/367, 544/373, 546/200, 514/321, 514/323, 546/197, 546/201, 514/415, 514/443, 514/469, 548/491, 549/51, 549/467.
- V. Claims 1, 23, 25, 43 drawn to a method of treating a disease or disorder with an underlying dysregulation of emotional functionality comprising administering to a patient a compound having (i) selective affinity for the dopamine (D4) receptor and a (ii) selective affinity for the 5-HT2A receptor (ii) a second compound having selective affinity for neuroleptic agent classified in class 514/254.02, 514/253.01, 514/254.08, 514/323, 544/364, 544/367, 544/373, 546/200, 514/321, 514/323, 546/197, 546/201, 514/288, 546/67, 546/68.

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- VI. Claims 11, 24, 42, 44 drawn to a method of treating a disease or disorder with an underlying dysregulation of emotional functionality comprising administering to a patient a compound having (i) selective affinity for the dopamine (D4) receptor, (ii) a second compound having selective affinity for the 5-HT2A receptor and (ii) a compound having selective affinity for neuroleptic agent classified in class 514/254.02, 514/253.01, 514/254.08, 514/323, 544/364, 544/367, 544/373, 546/200, 514/321, 514/323, 546/197, 546/201, 514/288, 546/67, 546/68.
- VII. Claims 1, 26, 28-32, 48 drawn to a method of treating a disease or disorder with an underlying dysregulation of emotional functionality comprising administering to a patient a compound having (i) selective affinity for the dopamine (D4) receptor and a (ii) selective affinity for the 5-HT2A receptor (ii) a second compound having selective affinity for NK1 antagonist classified in class 514/254.02, 514/253.01, 514/254.08, 514/323, 544/364, 544/367, 544/373, 546/200, 514/321, 514/323, 546/197, 546/201, 514/278, 546/16, 546/19.
- VIII. Claims 11, 27, 45-47, 49 drawn to a method of treating a disease or disorder with an underlying dysregulation of emotional functionality comprising administering to a patient a compound having (i) selective affinity for the dopamine (D4) receptor, (ii) a second compound having selective affinity for the 5-HT2A receptor and (ii) a compound having selective affinity for NK1 antagonist 514/254.02, 514/253.01, 514/254.08

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- , 514/323 , 544/364 , 544/367, 544/373 , 546/200, 514/321 , 514/323 , 546/197 , 546/201, 514/278, 546/16 , 546/19.
- IX. Claims 1, 33, 35-36 drawn to a method of treating a muscoskeletal disease or disorder comprising administering to a patient a compound having (i) selective affinity for the dopamine (D4) receptor and a (ii) selective affinity for the 5-HT2A receptor and (iii) a COX-2 inhibitor classified in class 514/254.02 , 514/253.01 , 514/254.08 , 514/323 , 544/364 , 544/367 , 544/373 , 546/200, 514/321 , 514/323 , 546/197 , 546/201, 514/241 , 514/242 , 514/252.01 , 514/267 , 514/359 , 514/362 , 514/363 , 514/365 , 514/372 , 514/374 , 514/378 , 514/383 , 514/451 , 514/444 , 514/473 , 514/99 , 514/461 , 549/60 , 549/295 , 549/323 , 549/218 , 549/222 , 544/180 , 544/238 , 544/333 , 544/374 , 548/127 , 548/128 , 548/131 , 548/134.
- X. Claims 11, 34, 50, 51 drawn to a method of treating a muscoskeletal disease or disorder comprising administering to a patient a compound having (i) selective affinity for the dopamine (D4) receptor, (ii) a second compound having selective affinity for the 5-HT2A receptor and (iii) a COX-2 inhibitor classified in class 514/254.02, 514/253.01, 514/254.08, 514/323, 544/364, 544/367, 544/373, 546/200, 514/321, 514/323, 546/197, 546/201, 514/241, 514/242, 514/252.01, 514/267, 514/359, 514/362, 514/363, 514/365, 514/372, 514/374, 514/378, 514/383, 514/451, 514/444, 514/473, 514/99, 514/461, 549/60, 549/295,

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- 549/323 , 549/218 , 549/222 , 544/180 , 544/238 , 544/333 , 544/374 , 548/127 , 548/128 , 548/131 , 548/134.
- XI. Claims 37 and 38 drawn to a method of preparing a compound having a selective D4 and 5-HT2A antagonist, reverse agonist or partial agonist activity classified in class 514/254.02, 514/253.01, 514/254.08, 514/323, 544/364, 544/367, 544/373, 546/200, 514/321, 514/323, 546/197, 546/201.
- XII. Claims 52 -54 drawn to a pharmaceutical composition comprising a compound having (i) selective affinity for the dopamine (D4) receptor and a (ii) selective affinity for the 5-HT2A receptor (ii) a selective serotonin reuptake inhibitor; and a pharmaceutical composition comprising a compound having (i) selective affinity for the dopamine (D4) receptor (ii) a compound having a selective affinity for the 5-HT2A receptor (iii) a selective serotonin reuptake inhibitor classified in class 514/254.02 , 514/253.01 , 514/254.08 , 514/323 , 544/364 , 544/367 , 544/373 , 546/200, 514/321 , 514/323 , 546/197 , 546/201, 514/331 , 514/321 , 514/323 , 514/408 , 540/484 , 544/180 , 546/192 , 546/197 , 546/201 , 548/570 , 546/229 , 546/210 , 546/232 , 546/236 .
- XIII. Claims 55-56 drawn to a pharmaceutical composition comprising a compound having (i) selective affinity for the dopamine (D4) receptor and a (ii) selective affinity for the 5-HT2A receptor (ii) a nor-epinephrine reuptake inhibitor, and a pharmaceutical composition comprising a

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compound having (i) selective affinity for the dopamine (D4) receptor (ii) a compound having a selective affinity for the 5-HT2A receptor (iii) a nor-epinephrine re-uptake inhibitor classified in class 514/254.02 , 514/253.01 , 514/254.08 , 514/323 , 544/364 , 544/367 , 544/373 , 546/200, 514/321 , 514/323 , 546/197 , 546/201, 514/415 , 514/443 , 514/469 , 548/491 , 549/51 , 549/467.

- XIV. Claims 57-58 drawn to a pharmaceutical composition comprising a compound having (i) selective affinity for the dopamine (D4) receptor and a (ii) selective affinity for the 5-HT2A receptor (ii) a neuroleptic agent and a pharmaceutical composition comprising a compound having (i) selective affinity for the dopamine (D4) receptor (ii) a compound having a selective affinity for the 5-HT2A receptor (iii) a neuroleptic agent classified in class 514/254.02, 514/253.01, 514/254.08, 514/323, 544/364, 544/367, 544/373, 546/200, 514/321, 514/323, 546/197, 546/201, 514/288, 546/67, 546/68.
- XV. Claims 59-61 drawn to a pharmaceutical composition comprising a compound having (i) selective affinity for the dopamine (D4) receptor and a (ii) selective affinity for the 5-HT2A receptor (ii) an NK1 antagonist; and a pharmaceutical composition comprising a compound having (i) selective affinity for the dopamine (D4) receptor (ii) a compound having a selective affinity for the 5-HT2A receptor (iii) an NK1 antagonist, classified in class 514/254.02, 514/253.01, 514/254.08, 514/323, 544/364, 544/367,

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544/373 , 546/200, 514/321 , 514/323 , 546/197 , 546/201, 514/278, 546/16 , 546/19.

XVI. Claims 62-63 drawn to a pharmaceutical composition comprising a compound having (i) selective affinity for the dopamine (D4) receptor and a (ii) selective affinity for the 5-HT2A receptor (ii) a COX-2 inhibitor; and a pharmaceutical composition comprising a compound having (i) selective affinity for the dopamine (D4) receptor (ii) a compound having a selective affinity for the 5-HT2A receptor (iii) a COX-2 inhibitor, classified in class 514/254.02 , 514/253.01 , 514/254.08 , 514/323 , 544/364 , 544/367 , 544/373 , 546/200, 514/321 , 514/323 , 546/197 , 546/201, 514/241 , 514/242 , 514/252.01 , 514/267 , 514/359 , 514/362 , 514/363 , 514/365 , 514/372 , 514/374 , 514/378 , 514/383 , 514/451 , 514/444 , 514/473 , 514/99 , 514/461 , 549/60 , 549/295 , 549/323 , 549/218 , 549/222 , 544/180 , 544/238 , 544/333 , 544/374 , 548/127 , 548/128 , 548/131 , 548/134.

The inventions are distinct from each other because of the following reasons:

Inventions of Groups I–X, are related as a method of treating a disease or a

disorder with an underlying dysregulation of emotional functionality or muscoskeletal

disease and Groups XI-XVI drawn to a pharmaceutical composition. Groups I-X and XI
XVI are related to method of using the product and product composition. The inventions

are distinct if either or both of the following can be shown: (1) that the method as

claimed can be carried out with a different product or (2) that the product as claimed can

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be used for a different method. In the instant case the method in the claims can use different composition comprising Hypericum perforatum extract and 5-HTP in the treatment of depression or mood disorder as taught by Cho et al. (U.S. 6,068,846).

Because these inventions are distinct for the reasons given above and the search required for Groups I–X is not required for Groups XI-XVI, restriction for examination purposes as indicated is proper. The searches of Groups I–X and XI-XVI may be overlapping but there is no reason to believe that the searches would be coextensive. The examiner will be focusing on the patentability of the method and not the composition for Groups I–X searches. Conversely, in searching Group XI-XVI, the examiner will be focusing on the patentability of the composition and not the method of treatment. The search for all inventions would place an undue burden on the Office in view of the corresponding diversity in the field of search for each.

The examiner has required restriction between process and product claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection is governed by 37 CFR 1.116; amendments submitted after allowance is governed by 37 CFR 1.312.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between products claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

The inventions of Groups I–X are distinct for the reasons given here. Groups I-VIII are drawn to a method of treating a disease or disorder with an underlying dysregulation of emotional functionality and IX-X drawn to a method of treating muscoskeletal disease or disorder. Though groups I-VIII are drawn to a method of treating emotional disorders the composition administered for the treatments vary. For

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example group I administers a compound with a selective affinity for Dopamine D4 and a selective affinity for 5-HT2A and group VIII is involved in the administration of three compounds, a compound with selective affinity for Dopamine D4, a second compound with selective affinity for the 5-HT2A receptor and a third compound, a nor-epinephrine re-uptake inhibitor. The search of administration of compounds for each single disorder combined together or separately with a huge number of compounds listed as dopamine, serotonin, nor-epinephrine, neuroleptic compounds classified under different classes would place an undue burden on the Office in view of the corresponding diversity in the field of search for each emotional disorder/disease or muscoskeletal disease or disorder.

The application contains claims directed to patentably distinct species of the claimed invention. If Applicants' elect Group I, Applicants' are further required to elect a disorder (example, sleep disorder) and a species of the compound (example, pipamperone). If Applicants' elect Group II, Applicants' are further required to elect a disorder (example, sleep disorder) and a species of the first compound (example, pipamperone), a species of the second compound, and a species of the third compound (example, fluoxetine). If Applicants' elect Group III, Applicants' are further required to elect a disorder (example, sleep disorder) and a species of the compound (example, pipamperone) and a norepinephrine reuptake inhibitor (example, tandamine). If Applicants' elect Group IV, Applicants' are further required to elect a disorder (example, sleep disorder) and a species of the first compound (example, pipamperone), a species of the second compound, and a norepinephrine reuptake inhibitor (example,

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tandamine). ). If Applicants' elect Group V, Applicants' are further required to elect a disorder (example, sleep disorder) and a species of the compound (example. pipamperone) and a neuroleptic agent (example, haloperidol). If Applicants' elect Group VI, Applicants' are further required to elect a disorder (example, sleep disorder) and a species of the first compound (example, pipamperone), a species of the second compound, and a neuroleptic agent (example, haloperidol). ). If Applicants' elect Group VII, Applicants' are further required to elect a disorder (example, sleep disorder) and a species of the compound (example, pipamperone) and an NK1 antagonist (example, GW679769). If Applicants' elect Group VIII, Applicants' are further required to elect a disorder (example, sleep disorder) and a species of the first compound (example, pipamperone), a species of the second compound, and an NK1 antagonist (example, GW679769). If Applicants' elect Group IX, Applicants' are further required to elect a muscoskeletal disorder (example, osteoarthritis) and a species of the compound (example, pipamperone) and a COX-2 inhibitor (example, celecoxib). If Applicants' elect Group X, Applicants' are further required to elect a muscoskeletal disorder (example. osteoarthritis) and a species of the first compound (example, pipamperone), a species of the second compound, and a COX-2 inhibitor (example, celecoxib). If Applicants' elect Group XI, Applicants' are further required to elect a species of the compound of preparation. If Applicants' elect Group XII, Applicants' are further required to elect a species of the first compound having a selective affinity for Dopamine D4 receptor, a species of the second compound having a selective affinity for the 5-HT2A receptor. and a species of the third compound, a selective serotonin reuptake inhibitor. If

inhibitor (example, celecoxib).

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Applicants' elect Group XIII, Applicants' are further required to elect a species of the first compound having a selective affinity for Dopamine D4 receptor, a species of the second compound having a selective affinity for the 5-HT2A receptor, and a species of the third compound, a nor-epinephrine re-uptake inhibitor. If Applicants' elect Group XIV, Applicants' are further required to elect a species of the first compound having a selective affinity for Dopamine D4 receptor, a species of the second compound having a selective affinity for the 5-HT2A receptor, and a species of the third compound, a neuroleptic agent. If Applicants' elect Group XV, Applicants' are further required to elect a species of the first compound having a selective affinity for Dopamine D4 receptor, a species of the second compound having a selective affinity for the 5-HT2A receptor, and a species of the third compound, an NK1 antagonist. If Applicants' elect Group XIV, Applicants' are further required to elect a species of the first compound having a selective affinity for Dopamine D4 receptor, a species of the second compound having a selective affinity for Dopamine D4 receptor, a species of the second compound having a selective affinity for Dopamine D4 receptor, a species of the third compound, a COX-2

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include

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all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

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## Election

A telephone call to the attorney is not required where 1) the restriction requirement is complex, 2) the application is being prosecuted pro se, or 3) the examiner knows from past experience that a telephone election will not be made (MPEP § 812.01). Therefore, since the examiner knows from past experience that written restriction is preferred, a telephone election was not made.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Umamaheswari Ramachandran whose telephone number is 571-272-9926. The examiner can normally be reached on M-F 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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SREENI PADMANABHAN SUPERVISORY PATENT EXAMINER